



# Super Hero Science

**You are a doctor who has been asked to find out all you can about the special powers of your favourite Super Hero.**

**But first you will need to discover a little more about adaptation and diversity.**

## Activity

All the Super heroes in comic books have a sense or physical attribute that allows them to behave in a super human way, achieving things that normal people are unable to do. Some animals have done this too. Can you think of any that have become adapted to living in extreme climates or places and how they have physical characteristics that enable them to live there? (Think of the Polar and Desert regions) Some animals are nocturnal, how have they adapted to being out and about at night? What are the advantages and disadvantages?

Choose your favourite super hero and find out all you can about them. Make a list of their strengths and weaknesses. This site will really help you:

<http://www.bbc.co.uk/science/hottopics/superheroes/index.shtml>

Here are some Superhero projects for you to try!

1. Have a look around your home or school for a spider web. See how it is made. Mix black paint with PVA glue and using a spreader make your own web on greaseproof paper. When it is dry you can peel it off and use it as a decoration. Can you find out if all spiders spin the same sort of web? Spiderman's webs are very strong, how strong is spider silk? Spiders have sensitive hairs on their legs and bodies to sense vibrations so they know when they have trapped a fly in their web. Can you find out how they eat their prey?
  2. Wonder woman has a special lasso which helps her to tell if people are lying. Can you find out how our bodies give us away when we are lying? See if you can make your own lie detector test and try it out on your friends. Make a list of question to ask your friends and tell them they have to answer at least 3 with a lie. Can you spot the lies?
  3. Superman is so strong because his home planet, Krypton, is much denser than Earth so the gravitational force is much stronger, meaning much stronger muscles are needed to perform everyday tasks. Why do you think that astronauts can make such huge steps on the moon? Find out what the gravity is like on other planets in our solar system. Would we be Super people on any of them?
  4. Batman has a Bat Utility Belt with lots of Bat gadgets on it to help him in his fight against crime. Design your own gadget for a Bat belt. Remember it must be small enough to fit on a belt and light enough to carry whilst climbing up buildings. Or maybe you could design a new improved Bat Mobile?
-



creativeminds

Investigate!

5. If you were a Super Hero, what powers or talents would you have and what tools do you think would be most useful? The X-men work well as a team as they each have one special power. If you could choose one power from each of the above heroes what would it be and why? Design your own ultimate super hero, with tools and abilities. Give him or her a name and make your own cartoon storyboard adventure.

### Useful Websites

[www.supermanhomepage.com](http://www.supermanhomepage.com)

<http://www.wonderwoman-online.com/>

<http://www.marvel.com/>

**creativeminds** The Creative Minds project works with museums libraries and archives across the Yorkshire region, to provide young people with learning opportunities in Science, Technology, Engineering & Maths (S.T.E.M.). This ground-breaking project is the first of its kind in the country and is managed by MLA Yorkshire. This pack was developed by Creative Minds and Eureka! The Museum for Children with funding from Yorkshire Forward.

